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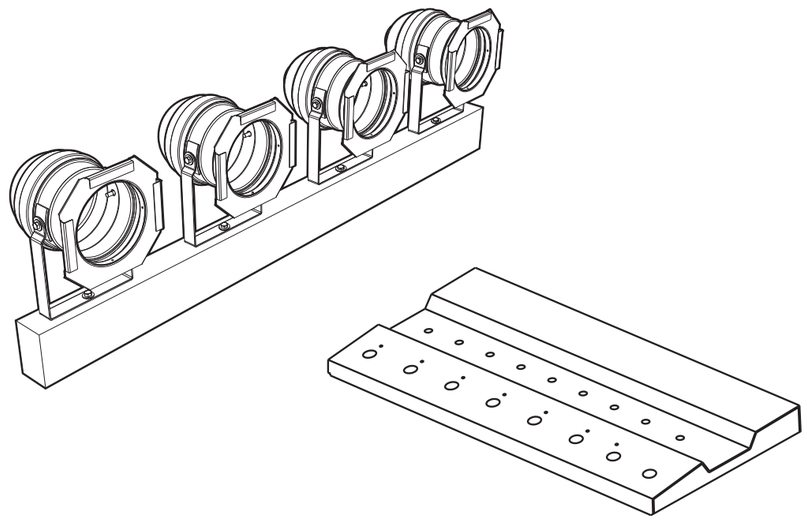
Yorkville

Quality and Innovation Since 1963

Printed in Canada

LP608/304

Computer Controlled Lighting System
Système d'Eclairage Controllè par Ordinateur



Yorkville

SERVICE MANUAL

Designed & Manufactured by
YORKVILLE SOUND • Toronto, Canada

IMPORTANT SAFETY INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Read Instructions:

The ***Owner's Manual*** should be read and understood before operation of your unit. Please, save these instructions for future reference.

Packaging:

Keep the box and packaging materials, in case the unit needs to be returned for service.

Warning:

When using electric products, basic precautions should always be followed, including the following:

Power Sources:

Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated.

Hazards:

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the “lightning bolt” are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

Power Cord:

The AC supply cord should be routed so that it is unlikely that it will be damaged. If the AC supply cord is damaged **DO NOT OPERATE THE UNIT**.

Service:

The unit should be serviced only by qualified service personnel.

INSTRUCTIONS RELATIVES AU RISQUE DE FEU, CHOC ÉLECTRIQUE, OU BLESSURES AUX PERSONNES.

AVIS:

N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE). NE CONTIENT AUCUNE PIECE REPARABLE PAR L'UTILISATEUR.

CONSULTEZ UN TECHNICIEN QUALIFIE POUR L'ENTRETIENT.

Veuillez lire le manuel:

Il contient des informations qui devraient êtres comprises avant l'opération de votre appareil. Conservez S.V.P. ces instructions pour consultations ultérieures

Emballage:

Conservez la boite au cas ou l'appareil devait être retourner pour réparation.

Warning:

Attention: Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

Alimentation:

L'appareil ne doit être branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent êtres prises afin d'eviter que le système de mise à la terre de l'appareil ne soit désengagé.

Hazard:

Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant.

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appeil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Les dispositifs marqués d'une symbole “d'éclair” sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connection extérieure doivent être effectivés par un opérateur formé ou en utilisant des cordons déjà préparés.

Cordon d'alimentation:

Évitez d'endommager le cordon d'alimentation. **N'UTILISEZ PAS L'APPAREIL** si le cordon d'alimentation est endommagé.

Service:

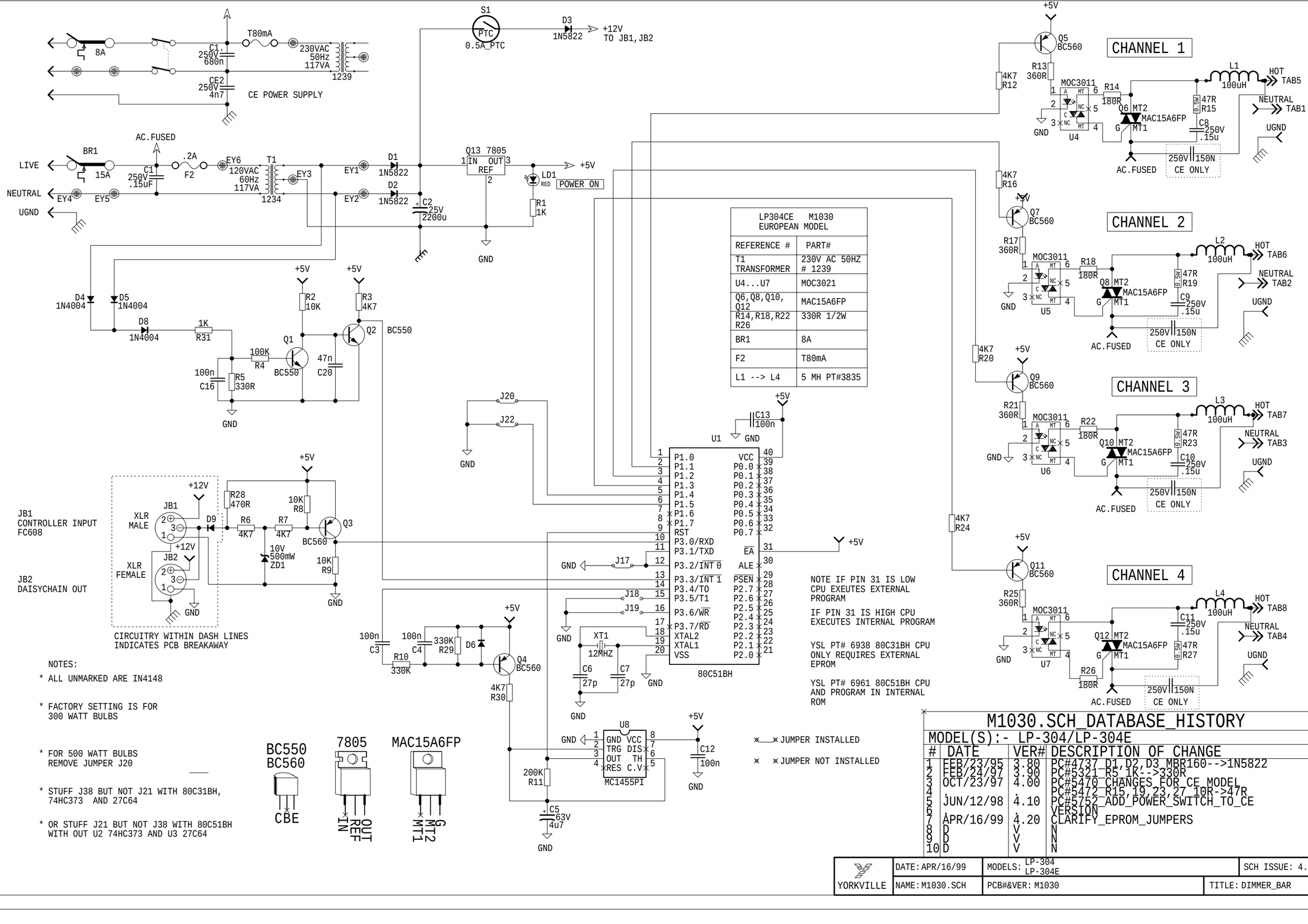
Consultez un technicien qualifié pour l'entretien de votre appareil.

LP304

YS No.	Description	Qty.
3555	40 PIN DUAL IN-LINE IC SOCKET	1
6939	12MHZ CRYSTAL HC49\FOX120	1
6405	RED 3MM LED 1V7 5MA BRT	1
6825	1N4148 75V 0A45 DIODE T&R	2
6438	1N4004 400V 1A0 DIODE T&R	3
6487	1N5822 40V 3A0 DIODE SCHTKY	3
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	1
6855	NJM7805FA TO220 P 5V0 REG IS V1	1
5101	BC550C TO92 NPN TRAN T&R TB	2
5102	BC560C TO92 PNP TRAN T&R TB	6
6935	1455P1 IC SINGLE TIMER	1
6961	80C51BH IC CPU/ROM FOR LP-304	1
6470	MAC15A6FP TO220 15A TRIAC 400V	4
6862	MOC3011 OPTO-COUPLER	4
6481	0.5A 60 PTC CURRENT LIMITER	1
5404	_27P 100V 10%CAP T&R BEAD NPO	2
5308	_47N 50V 10%CAP T&R BEAD X7R	1
5314	100N 50V 10%CAP T&R BEAD X7R	5
5827	150N 250V 20%CAP BLK 'X2' 15MM AC	5
5259	__4U7 63V 20%CAP T&R RAD .2"EL	1
5888	2200U 25V 20%CAP BLK 16X25MM EL	1
2448	15.0 AMP CIRCUIT BREAKER	1
3769	_100UH COIL 18AGW ZOBEL FER CORE	4
3464	WIRE TO BOARD CRIMP 18-24 AWGT/LEAD	7
3490	CLIP 250X032 14-16AWG DISCO/INSL	2
3499	CLIP 250X032 14-16AWG FEMALE BULK	8
3682	250 MALE PCB TAB BULK CARTRIGE	8
3922	XLR FEML PCB MT HORZ THIN SNAP-IN	1
3923	XLR MALE PCB MT HORZ MTHOLE-V SNAP	1
3451	EYELET SMALL 0.089 OD PLATED	8
3542	EYELET LARGE SE44 TIN-PLAT BRASS	6
3414	INTERNATIONAL PC MOUNT FUSEHOLDER	2
2431	0.200 AMP SLO-BLO .25X1.25 FUSE	1
9902	GEL SET FOR DB-304	1
3501	B52200F006 COMP WASH #4 SMALL	4
8855	SCREWKNOB 5/16"18 X 1" SUPERSTAR	1
3795	#8 GROUND LUG ZIERICK 505-169	6
3810	4" NYLON CABLE TIE	12
9904	PAR 56 LIGHT FIXTURE ALUMINUM	4
3479	12'3/16 SJT AC LINE CORD BLACK 250"	1
3829	HEYCO #1207 STRAIN RELIEF	5
8261	GE VELVET LEXAN .007" X 12" X 24"	0.5
9903	300 WATT PAR_56 NSP BULB	4
8900	YORKVILLE WARRANTY CARD 2-YR UNLTD.	1
8793	4-40 HEX NUT ZINC	4
8800	6-32 KEPS NUT ZINC	11
8787	8-32 KEPS NUT ZINC	1
8848	5/16 WELDNUT	1
8883	1/2 X 13 NYLON INSERT LOCK NUT	4
4597	22AWG STRAN TC WIR JMP	8
4599	22AWG SOLID SC WIR T&R JMP	12
5299	24AWG SOLID SC WIR RAD JMP	3
4617	1/2W 47R 5% T&R RES	4
4819	1/4W 180R 5% T&R RES	4
4855	1/4W 330R 5% T&R RES	1
4881	1/4W 360R 5% T&R RES	4
4821	1/4W 470R 5% T&R RES	1
4823	1/4W 1K 5% T&R RES	2
4827	1/4W 4K7 5% T&R RES	8
4829	1/4W 10K 5% T&R RES	3
4838	1/4W 100K 5% T&R RES	1
4886	1/4W 200K 5% T&R RES	1
4842	1/4W 330K 5% T&R RES	2
8741	4-40 X 1/2 PAN PH MS JS500	4
8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	4
8799	#6 X 1/4 PAN PH TYPE B JS500	2
8801	6-32 X 3/8 PAN PH TAPTITE JS500	13
8830	6-32 X 7/8 PAN PH MS JS500	3
8803	8-32 X 3/8 PAN QUAD TAPTITE JS500	18
8815	8-32 X 3/4 PAN PH TAPTITE JS500	1
8762	10-32 X1/2 TRUSS QUAD TAPTITE JS500	4
8783	10-32 X 1 PAN QUAD TT JS500 BLACK	1
8860	1/2-13 X 1 1/4 HEX CAP SCREW ZINC	2
8882	1/2-13 X 5 BOLT ZINC	2
3744	SNAP IN .375 SPACER RICHCO	3
3833	8 X 3/8 (250 OD,.171 ID)NY SPACER	1
8884	.505 I. D. SPRING TENSION WASHER	4
8852	#6 INTERNAL TOOTH LOCKWASHER	1
8820	#8 FLAT WASHER JS500	1
8463	1.468 X .515 X .05 NYLON WASHER BLK	4
1234	G-20/LP-304 LP-504D XFMR	1

LP608

YS No.	Description	Qty.
3555	40 PIN DUAL IN-LINE IC SOCKET	1
3571	28 PIN X .6" I.C. SOCKET	1
6939	12MHZ CRYSTAL HC49\FOX120	1
6405	RED 3MM LED 1V7 5MA BRT	1
6400	YEL 3MM LED 1V9 6MA HIGHEFF	7
6825	1N4148 75V 0A45 DIODE T&R	47
6438	1N4004 400V 1A0 DIODE T&R	4
6944	LM2931T TO220 P 5V0 REG V1	1
5101	BC550C TO92 NPN TRAN T&R TB	2
5102	BC560C TO92 PNP TRAN T&R TB	3
6789	2N3904 TO92 NPN TRAN TA	5
6987	NJM2901N IC DUAL COMPARATOR	3
6935	1455P1 IC SINGLE TIMER	1
6949	4093BCP IC QUAD 2I/P SCH/TRIG	1
6937	74HC373N IC OCTAL LATCH 3 STAGE	4
6942	74HC139 IC DUAL 2OF4 DECODER	1
6943	74HC374N IC OCTAL DTYPE LATCH	1
6948	27C64 200NS IC PREPROG. FOR LP-608	1
6961	80C51BH IC CPU/ROM FOR LP-304	1
6941	MOC5008 OPTO-COUPLER	1
5404	_27P 100V 10%CAP T&R BEAD NPO	2
5432	__4N7 50V 10%CAP T&R BEAD Y5R	6
5314	100N 50V 10%CAP T&R BEAD X7R	27
5322	470N 50V 10%CAP T&R BEAD Z5U	1
5861	__4U7 63V 10%CAP T&R AXIAL EL	1
5846	_22U 25V 10%CAP T&R AXIAL EL	1
5943	_68U 16V 20%CAP T&R AXIAL EL	4
5623	330U 16V 20%CAP BLK AXIAL EL	1
4580	ROT BIN 18MM 1BIT ENCODER P18	9
8543	RECESSED RUBBER BUMPER WITH WASHER	4
3427	MIDI JCK PCB MT HORZ 5PIN DIN	1
3527	1/4" JCK PCB MT HORZ GOLD __S	1
3922	XLR FEML PCB MT HORZ THIN SNAP-IN	2
3451	EYELET SMALL 0.089 OD PLATED	26
3985	LITE CONTROL BATTERIES "AA"	2
3986	PC/2 "AA" BATT. HOLDER	1
8498	6-32 X 3/8 STEEL PEM STUD	3
3810	4" NYLON CABLE TIE	1
3827	SQUARE BUMPER BUTTON BLACK	1
8591	SLIDE POT KNOB-RED	3
8627	LIGHT SHOW KNOB (BLACK/W RED CAP)	9
8661	BUTTON KNOB FLAT GREY	3
8261	GE VELVET LEXAN .007" X 12" X 24"	1
8910	YORKVILLE PRODUCT MANUAL	1
8900	YORKVILLE WARRANTY CARD 2-YR UNLTD.	1
3521	SIDE ENTRY PCB CONN .156 8POS	2
3541	24 PIN BREAKAWAY 90 .156	1
4597	22AWG STRAN TC WIR JMP	9
4599	22AWG SOLID SC WIR T&R JMP	204
4817	1/4W 47R 5% T&R RES	10
4857	1/4W 220R 5% T&R RES	1
4821	1/4W 470R 5% T&R RES	2
4823	1/4W 1K 5% T&R RES	4
4826	1/4W 3K3 5% T&R RES	1
4827	1/4W 4K7 5% T&R RES	9
4829	1/4W 10K 5% T&R RES	39
4832	1/4W 22K 5% T&R RES	8
4834	1/4W 47K 5% T&R RES	20
4836	1/4W 68K 5% T&R RES	1
4838	1/4W 100K 5% T&R RES	14
4849	1/4W 180K 5% T&R RES	1
4842	1/4W 330K 5% T&R RES	2
4843	1/4W 470K 5% T&R RES	2
4874	1/4W 560K 5% T&R RES	1
4844	1/4W 1M 5% T&R RES	3
4845	1/4W 2M2 5% T&R RES	1
3677	_5" 8C-26AWG RIB 3/4" NOTCH 0.1"	2
8870	#4 X 1/4 PAN PH TYPE A ZINC	2
8742	4-40 X 3/8 PAN PH TAPTITE JS500	4
8801	6-32 X 3/8 PAN PH TAPTITE JS500	6
8803	8-32 X 3/8 PAN QUAD TAPTITE JS500	16
8905	YORKVILLE PRODUCT SCHEMATIC	1
8491	#10 SPLIT LOCK WASHER BO	1
3503	FIBRE WASHER 0.5ID, 0.75OD 0.04 THK	17
3509	SWS 3602 BLK. SHOULD.WASHER(MICRO)	17
3436	DPDT PUSH SW PCMT H BREAK B4 MAKE	3
3588	SPST FOOT SW LUG MOMENTARY ON	8



LP304CE M1030 EUROPEAN MODEL	
REFERENCE #	PART#
T1 TRANSFORMER	230V AC 50HZ # 1239
U4...U7	MOC3021
Q6,Q8,Q10, Q12	MAC15A6FP
R14,R18,R22 R26	330R 1/2W
BR1	8A
F2	T80mA
L1 --> L4	5 MH PT#3835

M1030.SCH_DATABASE_HISTORY

MODEL(S):- LP-304/LP-304E

#	DATE	VER#	DESCRIPTION OF CHANGE
1	FEB/23/95	3.80	PC#4737 D1,D2,D3 MBR160-->1N5822
2	FEB/24/97	3.90	PC#5321 R5 1K-->330R
3	OCT/23/97	4.00	PC#5470 CHANGES FOR CE MODEL
4			PC#5472 R15,19,23,27 10R->47R
5	JUN/12/98	4.10	PC#5752 ADD POWER SWITCH TO CE VERSION
6	APR/16/99	4.20	CLARIFY EPROM JUMPERS
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N

YORKVILLE	DATE: APR/16/99	MODELS: LP-304 LP-304E	SCH ISSUE: 4.20
	NAME: M1030.SCH	PCB#&VER: M1030	TITLE: DIMMER_BAR

ASSEMBLY M1030-6.C

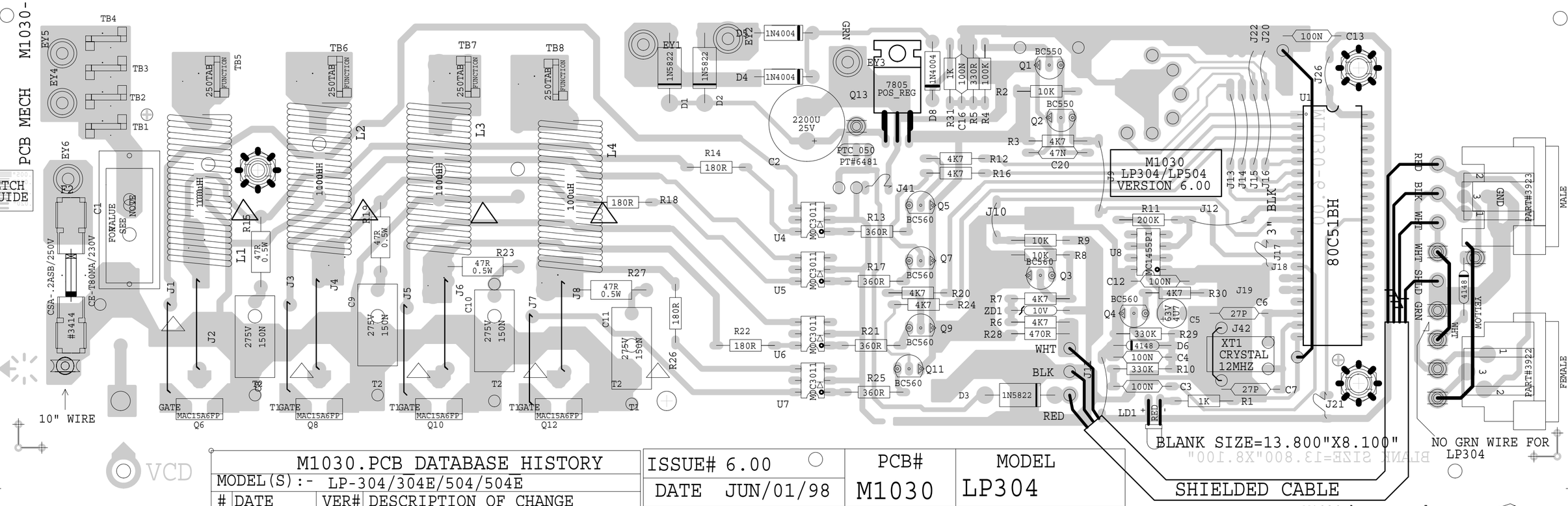
PCB MECH M1030-6.C

p:\1030v60.PRN

ETCH GUIDE

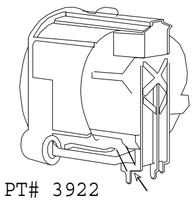
SHEAR

VCD



M1030.PCB_DATABASE_HISTORY			
MODEL(S):- LP-304/304E/504/504E			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	FEB/22/94	3.80	PC#4739 LP504/504E E POINT OF
2	.	.	. 12V SUPPLY FOR M505 CHANGED
3	.	.	PC#4737 D1,D2,D3 FROM MBR150 TO
4	.	.	. 1N5822
5	JUL/17/95	.	PC4862 PAD ADDED FOR NEW AC CAP
6	FEB/24/97	3.81	PC#5321 R5 1K-->330R
7	OCT/09/97	4.00	PC#5470 FOR LP304CE C1 150N
8	.	.	->680N ADD C14 680N,NEW XLR'S
9	.	.	NEW CHOKE
10	.	.	PC#5472 R15,R19,R23,R27 10R
11	.	.	->47R 1/2W
12	NOV/20/97	5.00	PC#5524 REDO FOR LP304 CE
13	MAY/28/98	6.00	PC#5720 REDO RE CSA SPACINGS
14	D	V	N
15	D	V	N
16	D	V	N
17	D	V	N
18	D	V	N
19	D	V	N
20	D	V	N

ISSUE# 6.00	PCB#	MODEL
DATE JUN/01/98	M1030	LP304



PT# 3922

THIS CONNECTION MUST BE BROKEN HERE

PRODUCTION NOTES

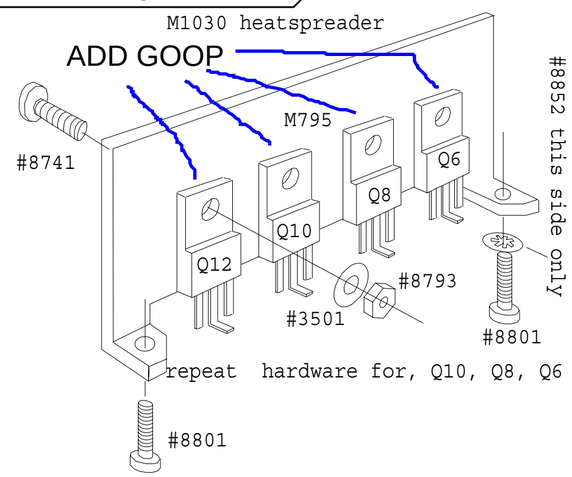
1 INDICATES STRANDED JUMPER WIRE

2 INDICATES SOLID WIRE JUMPER

3 △ INDICATES RTV

4 VALUE FOR C1 150N 250V FOR N.A. FOR CE 680N PT#5266

5



M1030-6.C ASSEMBLY

M1030-6.C PCB MECH

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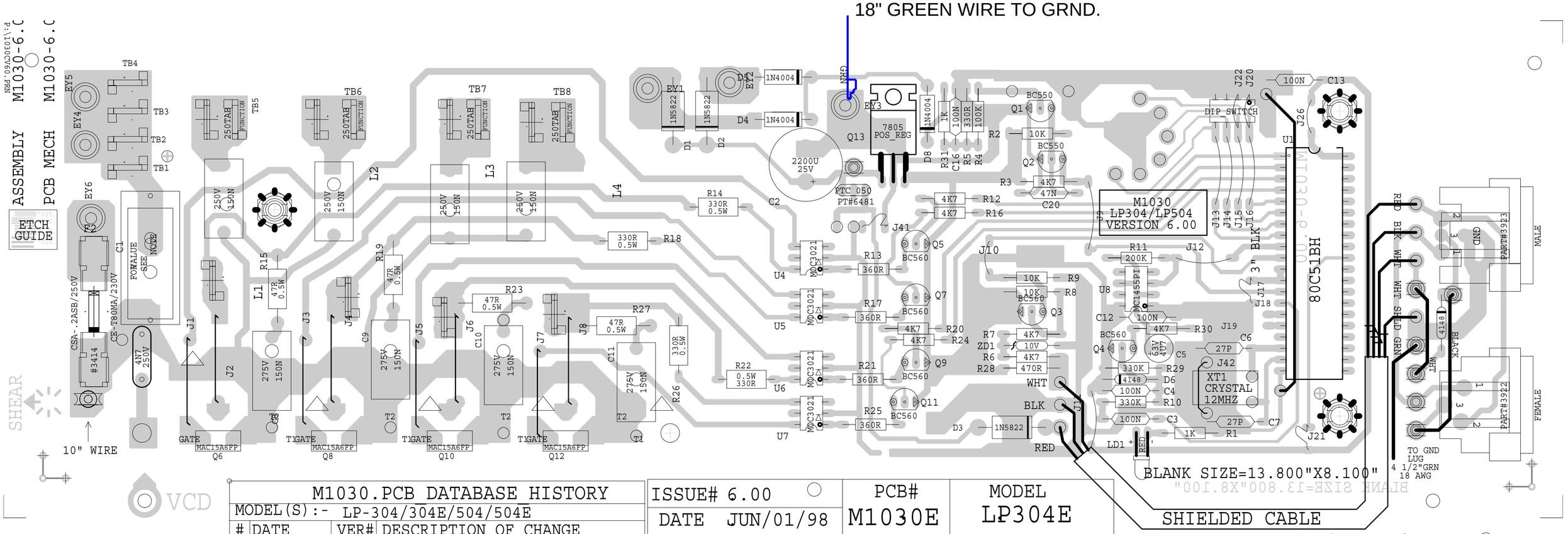
18" GREEN WIRE TO GRND.

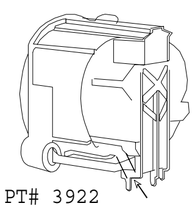


SHEAR

VCD

M1030.PCB_DATABASE_HISTORY			
MODEL(S):- LP-304/304E/504/504E			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	FEB/22/94	3.80	PC#4739 LP504/504E E POINT OF
2	.	.	. 12V SUPPLY FOR M505 CHANGED
3	.	.	PC#4737 D1,D2,D3 FROM MBR150 TO
4	.	.	. 1N5822
5	JUL/17/95	.	PC4862 PAD ADDED FOR NEW AC CAP
6	FEB/24/97	3.81	PC#5321 R5 1K-->330R
7	OCT/09/97	4.00	PC#5470 FOR LP304CE C1 150N
8	.	.	->680N ADD C14 680N,NEW XLR'S
9	.	.	NEW CHOKE
10	.	.	PC#5472 R15,R19,R23,R27 10R
11	.	.	->47R 1/2W
12	NOV/20/97	5.00	PC#5524 REDO FOR LP304 CE
13	MAY/28/98	6.00	PC#5720 REDO RE CSA SPACINGS
14	D	V	N
15	D	V	N
16	D	V	N
17	D	V	N
18	D	V	N
19	D	V	N
20	D	V	N

ISSUE# 6.00	PCB#	MODEL
DATE JUN/01/98	M1030E	LP304E



PT# 3922
THIS CONNECTION MUST BE BROKEN HERE

PRODUCTION NOTES

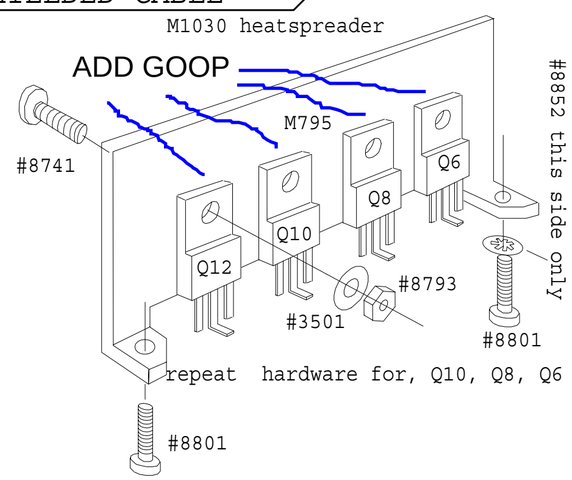
1 ——— INDICATES STRANDED JUMPER WIRE

2 ⌒ INDICATES SOLID WIRE JUMPER

3 △ INDICATES RTV

4 VALUE FOR C1 150N 250V FOR N.A. FOR CE 680N PT#5266

5 R26, R22, R14, R18 MUST BE 1/2W SMALL BODY



U:\M1031V15.PRN

P1.7 GOLD_T&R AUDIO_IN JB4 C1 4n7 R1 47K C2 4n7 C3 4n7 D1 D2 R3 10K R4 100K D3 R2 10K U9 1/4 LM339 R5 1K D4 R6 10K P1.5 C4 16V 68u R7 1M R8 1M Q10 BC550 +5V GND

100N C5 R10 470K R11 470K C6 4n7 R9 100K D5 D6 R12 10K R13 100K R14 1K R15 4K7 D7 P1.6 R16 1M R17 180K C8 68u 16V Q9 BC550

C41 100n BYPASS CAPACITOR IS CONNECTED TO SUPPLIES OF U9.

MIDI-IN JB3 R35 220R D14 U10 MOC5008 R36 1K C22 100n

R37 100K D15 R38 2M2 R39 100K R40 3K3 C23 470n SW2 FACTORY PRESET

MC14093B U11 R118 4K7 P1.4 R41 100K P3.2 3.6V

C24 100n TO PIN 12 OF U11 BYPASS CAPACITOR IS CONNECTED TO SUPPLIES OF U11. TO PIN 7 OF U11

TS_REF P1.3 U9 LM339 R43 10K R44 10K D16 D17 TS_PLS

R45 10K C25 100n R46 10K C26 100n TS_REF

TOUCH SWITCH FUNCTION SW3 TS_ON C27 100n

U5 74HC139 C28 100n

RATE-SELECT P1 R18 10K R19 10K

D50 1N4004 R116 47K C43 4n7 D51 1N4004 R117 47K C44 4n7

U1 80C31BH P1.0 P1.1 P1.2 P1.3 P1.4 P1.5 P1.6 P1.7 RST P3.0/RXD P3.1/TXD P3.2/INT 0 P3.3/INT 1 P3.4/T0 P3.5/T1 P3.6/WR P3.7/RD XTAL2 XTAL1 VSS VCC P0.0 P0.1 P0.2 P0.3 P0.4 P0.5 P0.6 P0.7 EA ALE PSEN P2.7 P2.6 P2.5 P2.4 P2.3 P2.2 P2.1 P2.0 C18 100n

U2 U3 U4 74HC373 C20 100n C21 100n

U6 74HC373 U7 74HC373 C29 100n C30 100n

U8 74HC374 C31 100n BUS 1

SW1 HOLD FOR MIDI SELECT

C7 100n R20 330K R119 330K D8 Q1 BC560 R120 4K7

U13 MC1455PI R21 68K R28 4K7 C10 63V 4u7 C11 100n

XT1 12MHZ C12 27p C13 27p C19 100n

27C64 C16 100n C17 100n D10 1N4004 D11 1N4004 C9 16V 68u B1 3.6V D12 EY1 EY2

R114 4K7 R22 10K P3.5 R23 10K Q8 2N3904 Q2 2N3904 Q3 2N3904 Q4 2N3904 Q5 2N3904 R25 47R R26 10K R27 10K R29 47R R30 10K

CONTROL SIGNAL CH1 - CH4 JB1 DB304

CONTROL SIGNAL CH5 - CH8 JB2 DB304

R31 1K R32 1K Q7 BC560 R34B 560K Q11 BC560 R34A 4K7 R34 4K7 P3.2 D9 Q6 LM2931 R33 47K C42 16V 68uF C15 16V 330uF C40 25V 22uF D13

BC550C BC560C 2N3904 C B E E B C

LAMP_1 P2 R48 10K LAMP_2 P3 R50 10K LAMP_3 P4 R52 10K LAMP_4 P5 R54 10K LAMP_5 P6 R56 10K LAMP_6 P7 R58 10K LAMP_7 P8 R60 10K LAMP_8 P9 R62 10K R47 10K R49 10K R51 10K R53 10K R55 10K R57 10K R59 10K R61 10K

TS_PLS R63 100K R64 47K R65 47K D18 D19 U12 LM339 R66 10K D20 D21 22K R67 C32 100n R68 47R SW4 SCENE_1

R69 100K R70 47K R71 47K D22 D23 R72 10K D24 D25 22K R73 C33 100n R74 47R SW5 SCENE_2

R75 100K R76 47K R77 47K D26 D27 R78 10K D28 D29 22K R79 C34 100n R80 47R SW6 SCENE_3

R81 100K R82 47K R83 47K D30 D31 R84 10K D32 D33 22K R85 C35 100n R86 47R SW7 SCENE_4

EFFECTS LD8 RED R112 470R SCENE MODE LD7 YELLOW R113 470R SCENE_6 LD6 SCENE_5 LD5 SCENE_4 LD4 SCENE_3 LD3 SCENE_2 LD2 SCENE_1 LD1 YELLOW

R108 10K LM339 U14 R109 47K D48 D49 47K R110 R111 100K C39 100n R106 47R SW11 BLACKOUT D46 D47 22K R107

R102 10K R103 47K D44 D45 47K R104 R105 100K C38 100n R100 47R SW10 EFFECTS D42 D43 22K R101

R96 10K R97 47K D40 D41 47K R98 R99 100K C37 100n R94 47R SW9 SCENE_6 D38 D39 22K R95

R89 10K R91 47K D36 D37 47K R92 R93 100K C36 100n R87 47R SW8 SCENE_5 D34 D35 22K R88

NOTES; THESE PARTS ADDED TO ELIMINATE MEMORY LOSS AFTER SHUT DOWN

NOTES; ALL UNMARKED DIODES ARE IN4148

WHEN MEMORY IS LOST, LOAD FACTORY PRESET BEFORE USING

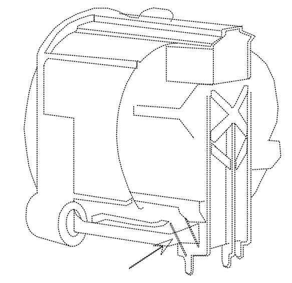
LM339 Vcc 3, GND 12

YORKVILLE SOUND LTD	FOR MODEL(S): LP608			PCB #: M1031
	DESIGN BY: TOM.WOOD	DRAWN BY: VIC.S	DWG #: 1 OF 1	
CAD FILE NAME: C:\PCAD\EXE\ C\M1031.SCH	PCB VER: M1031-3.00	SCH ISSUE: 1.50	DATE: JAN/12/00	TITLE: FOOT-CONTROLLER

ASSEMBLY M1031-4.00
PCB MECH M1031-4.00

PRODUCTION NOTES

PT# 3922



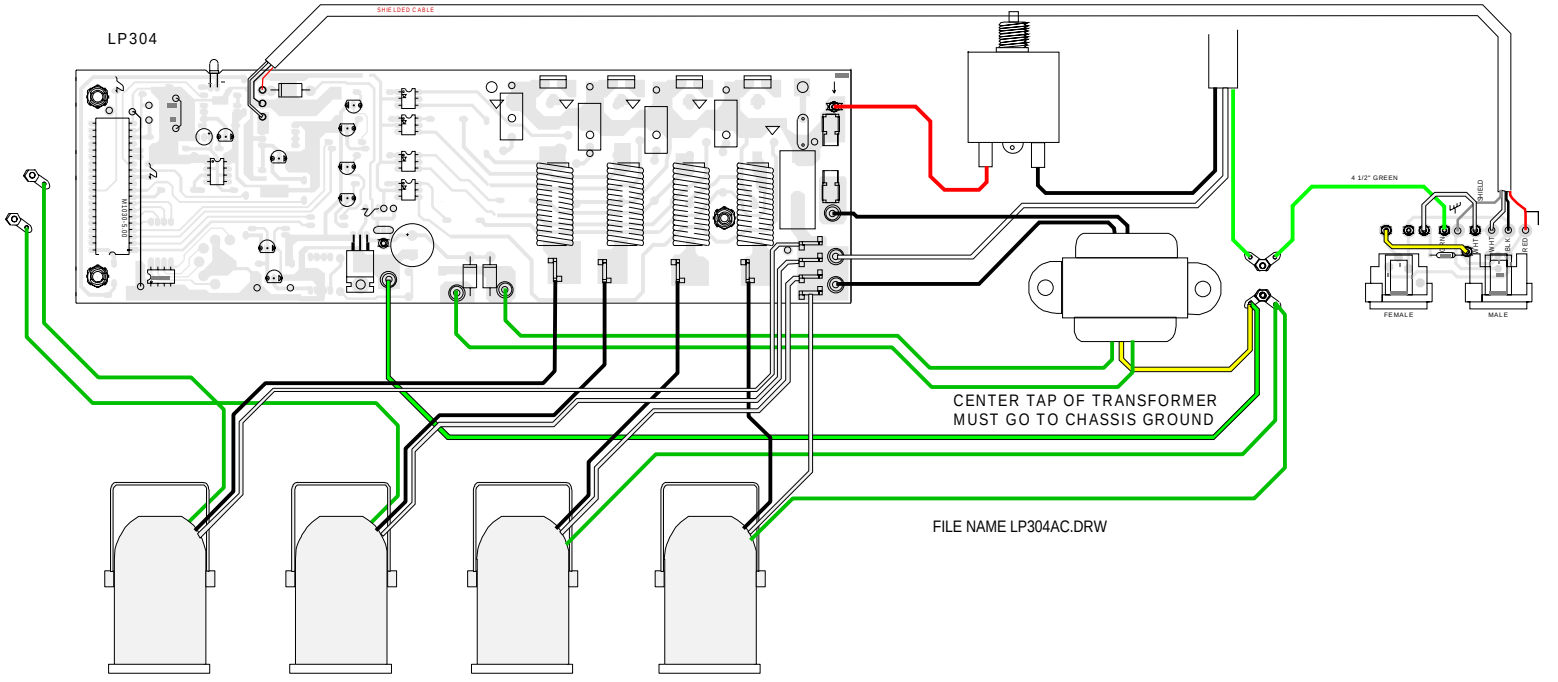
THIS CONNECTION MUST BE BROKEN HERE

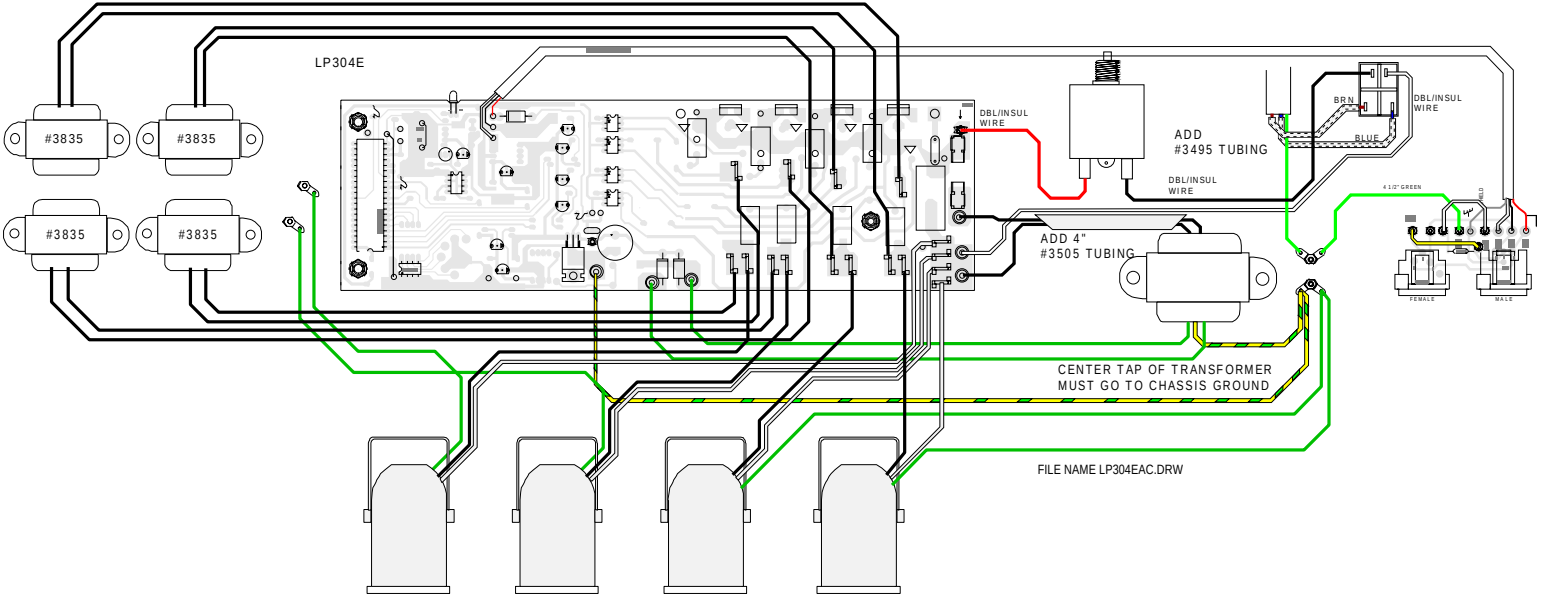
M1031.PCB_DATABASE_HISTORY

MODEL(S):- LP-608

#	DATE	VER#	DESCRIPTION OF CHANGE
1	OCT/15/97	4.00	PC#5471_REPLACE_XLR'S_#3660->#3922
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N

P:\1031CMP.PRN


LP304
SHIELDED CABLE
4 1/2" GREEN
GREEN
WHITE
SHIELD
BLACK
RED
FEMALE
MALE
CENTER TAP OF TRANSFORMER
MUST GO TO CHASSIS GROUND
FILE NAME LP304AC.DRW


LP304E
#3835
#3835
#3835
#3835
DBL/INSUL WIRE
ADD #3495 TUBING
DBL/INSUL WIRE
BRN
BLUE
DBL/INSUL WIRE
ADD 4" #3505 TUBING
4 1/2" GREEN
FEMALE
MALE
CENTER TAP OF TRANSFORMER MUST GO TO CHASSIS GROUND
FILE NAME LP304EAC.DRW

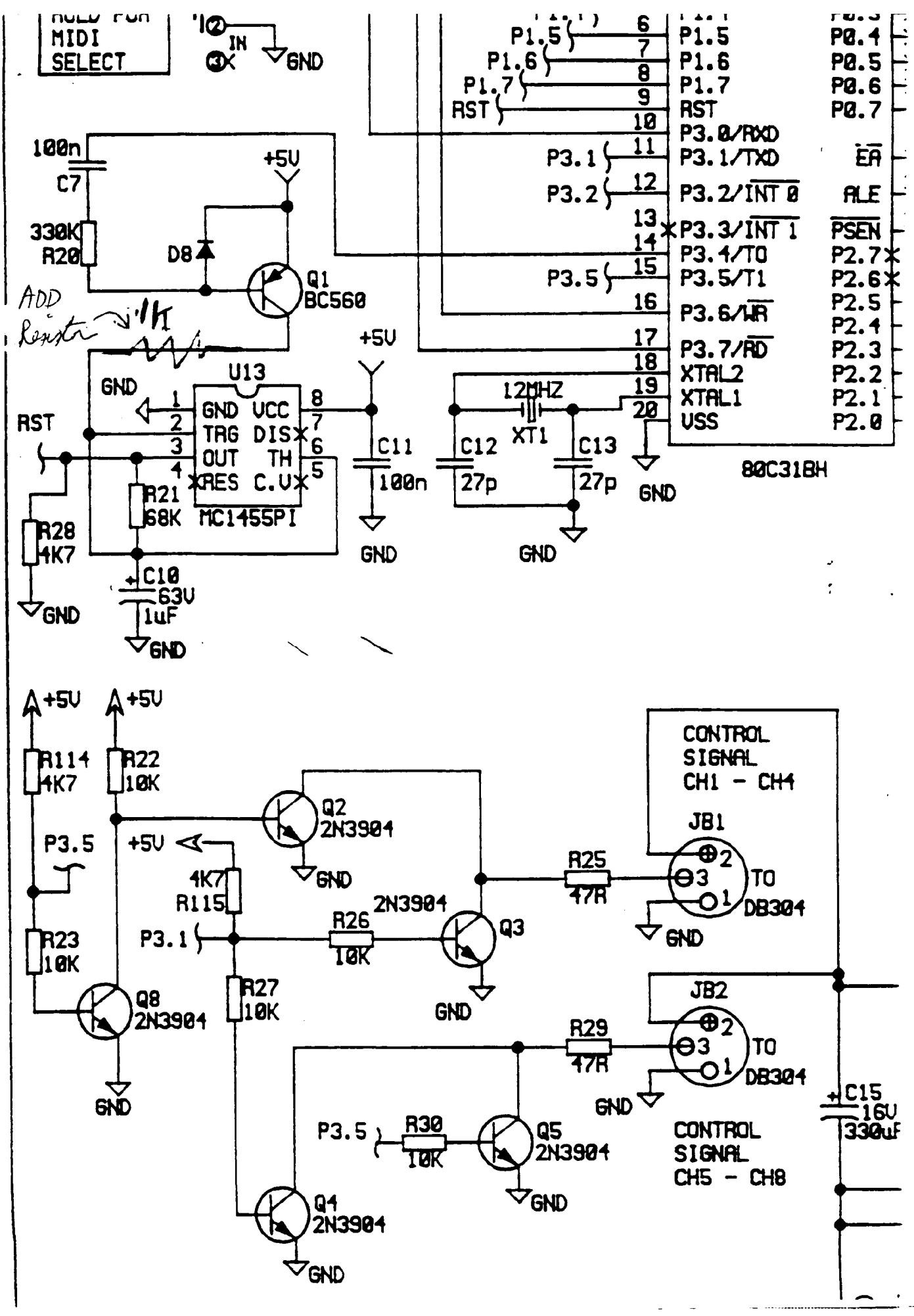
Yorkville Sound Limited
80 Midwest Road Unit 1
Scarborough, Ontario
Canada M1P 4R2
tel. (416) 751-8481 fax (416) 751-8746

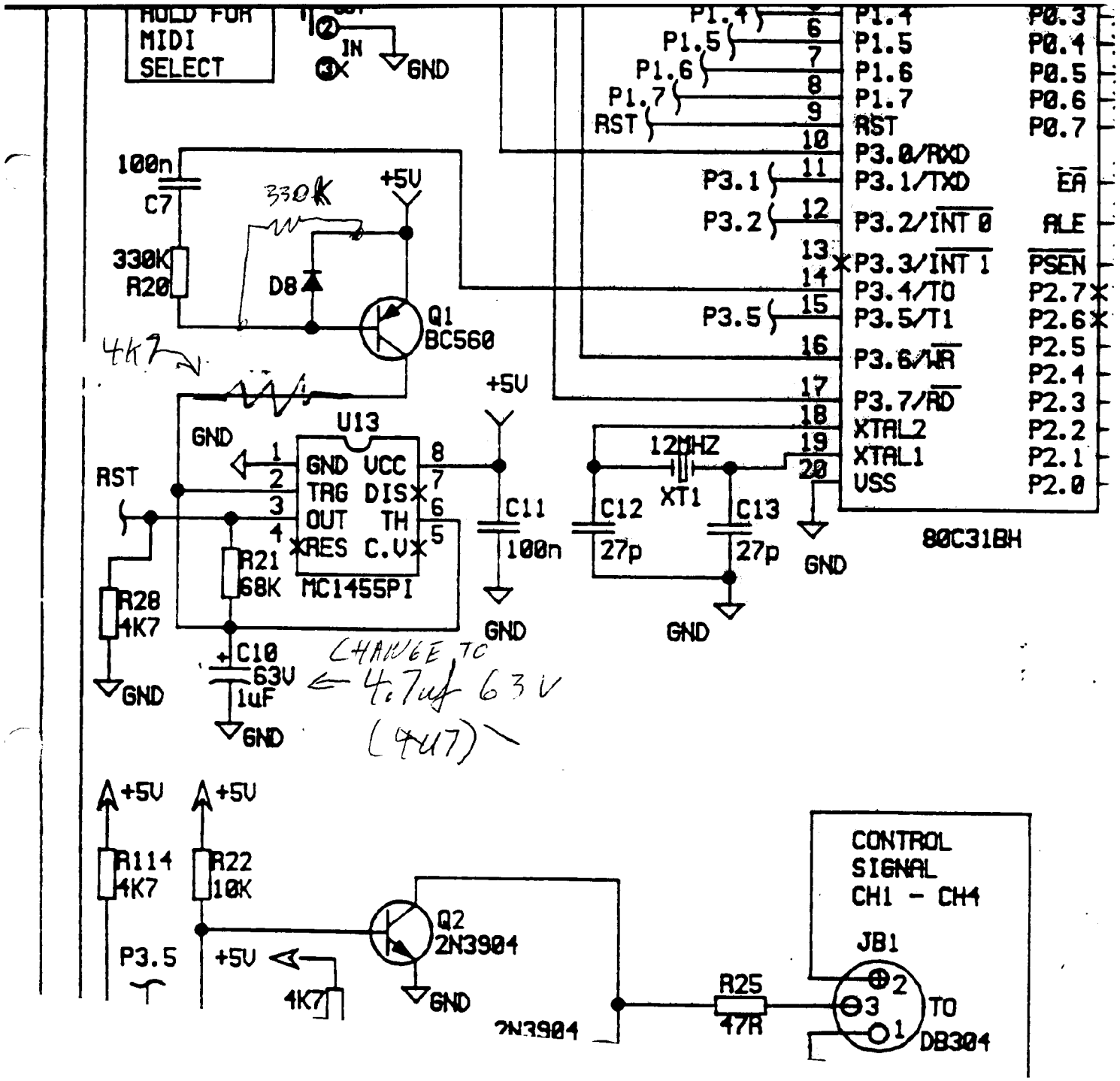
Re LP608

From: TOM WOOD, DESIGN LAB
To: YSL service tech's.

WHEN USING 3 or More DB 304's with LP608 A POWER UP PROBLEM CAN OCCUR WHICH WILL PREVENT SYSTEM FROM OPERATING. The Fix is out Lined on attached sheets. This consists of adding A 1K Resistor in series with the collector of Q1. This Requires removal of cover, cutting a trace and soldering in the resistor.

Tom Wood


HOLD FOR
MIDI
SELECT
IN
GND
P1.5
P1.6
P1.7
RST
P3.0/RXD
P3.1/TXD
P3.2/INT 0
P3.3/INT 1
P3.4/T0
P3.5/T1
P3.6/WR
P3.7/RD
XTAL2
XTAL1
VSS
P1.5
P1.6
P1.7
RST
P0.4
P0.5
P0.6
P0.7
EA
ALE
PSEN
P2.7
P2.6
P2.5
P2.4
P2.3
P2.2
P2.1
P2.0
80C31BH
100n
C7
330K
R20
D8
+5V
Q1
BC560
ADD
Resistor
1K
U13
GND
GND VCC
TRG DIS
OUT TH
RES C.V
MC1455PI
R21
68K
R28
4K7
C10
63V
1uF
C11
100n
12MHZ
XT1
C12
27p
C13
27p
R114
4K7
R22
10K
Q2
2N3904
P3.5
4K7
R115
R23
10K
Q8
2N3904
P3.1
R26
10K
2N3904
Q3
R27
10K
R25
47R
CONTROL
SIGNAL
CH1 - CH4
JB1
TO
DB304
JB2
R29
47R
TO
DB304
C15
16V
330uF
P3.5
R30
10K
Q5
2N3904
Q4
2N3904
CONTROL
SIGNAL
CH5 - CH8



UPDATE

TO LP608 MODIFICATIONS

GND